

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-11 (cancelled)

12. (New) Process for treating lameness that appears during osteoarthritis comprising the administration, to a human or to a human or to an animal not suffering from arthritis or from fractures, of an effective amount of a bisphosphonic acid derivative selected from the group consisting of:

- 1-hydroxyethylidenebisphosphonic acid and its sodium salts;
- 2-pyrid-2-ylethylidenebisphosphonic acid and its sodium salts;
- phenoxymethylenebisphosphonic acid and its salts;
- thiomorpholinomethylenebisphosphonic acid and its salts;
- 4-chlorophenylthiomethylenebisphosphonic acid and its salts;
- 1-hydroxy-2-(3-pyridyl)ethylidenebisphosphonic acid and its sodium salts;
- 1-hydroxy-2-(2-imidazolyl)ethyl-1,1-bisphosphonic acid and its salts; and
- 2-hydroxyethylidene-2-(3-pyridyl)-1,1-bisphosphonic acid and its sodium salts.

13. (New) Process according to claim 28, for treating an animal belonging to the equidae family.

14. (New) Process according to claim 28, for treating a horse.

15. (New) Process according to claim 28, comprising the administration of 0.001 mg/kg/ to 100 mg/kg of body weight of the bisphosphonic acid derivative.
16. (New) Process according to claim 28, for treating limps in horses, comprising the intravenous administration of 0.01 mg/kg/week to 1 mg/kg/week of tiludronic acid or one of its pharmaceutically acceptable salts.
17. (New) Process according to claim 28, comprising the oral administration of the bisphosphonic acid derivative.
18. (New) Process according to claim 28, comprising the parenteral administration of the bisphosphonic acid derivative.
19. (New) Process according to claim 28, comprising the administration of the bisphosphonic acid derivative in the form of an implant.
20. (New) Process according to claim 28, in which the bisphosphonic acid derivative is 4-chlorophenylthiomethylenebisphosphonic acid.